Roaring Fork Valley Safe Routes to School

School and Neighborhood Improvements Report



For additional information about Safe Routes to School contact Cathy Tuttle at 274-1875 or Larry Heinrichs at 274-0132 or go to www.newcenturytrans.org and click on Safe Routes to School

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Roaring Fork Valley Safe Routes to School Project report

In a previous document, called the <u>Survey Handbook</u>, we described the process for determining what is needed to evaluate our school and neighborhood streets and establish a successful and ongoing Safe Routes to School Program at your school—and to ultimately enhance the safety and health of our communities for years to come.

This document describes the findings from the School Site Surveys, Neighborhood Audits and Workshops that have been done to define, describe, quantify and prioritize the projects that are needed to increase safety and thus enable more parents to help and encourage their students to walk or bike to school.

The most urgent remediation projects are identified, with project cost estimates. This information will be forwarded to responsible organizations, which are city officials, county officials or school district administrators.



We believe that this prioritization and presentation process will yield the desired results in safe route remediation, and are confident that improvement of routes, parent / student education and specialized events will increase the number of students who will feel confident about walking or bicycling to their schools.

Our process included:

- Ø The <u>School Site Audit</u>, where we visited each school during their busy times, and reviewed the actual school traffic setting.
- Ø Neighborhood Audits, which were conducted by parents, to investigate their neighborhood and evaluate safety issues that might preclude their student from walking or biking to school.
- Ø Workshops, where concerned parents met with city officials, school representatives and the Safe Routes Team to identify areas that require remediation to create a safe route to their respective schools.

The following pages document each step of the process, and describe the projects and activities needed to encourage parents to have their students participate in walking or biking to school.

School Site Audit - Background



The main goal of this exercise was to list SPECIFIC locations on the school site and the surrounding streets that need improvements. We watched what happened at the school during the morning drop-off and afternoon pick-up periods. We watched the traffic patterns and observed student movements. We also talked to parents, teachers (especially those with outside duty in the morning and afternoon), police and school principals about the problems, and

have compiled a

list of what teachers or parents or police officers or our staff observed.

We looked for the major "hot spots" such as intersections that are difficult to cross, streets that need sidewalks, speeding traffic, students walking between cars and busses, missing or improperly placed crosswalks and other unsafe activities that occurred during the critical drop-off and pick-up times.

The following pages describe the workshops and activities for each town, with appendices

that show the resulting inventory of projects that were identified by parents, school officials, city employees and specialized consultants.



Aspen Campus Schools - School Site Audit Report

At this time, there is a major construction project in progress that will be completed over the summer. This project has temporarily rerouted and obliterated many normal pedestrian and bicycle routes to school for Middle and Elementary school students.

With that in mind, the SRTS team decided that a review of future plans would have to suffice as a substitute for a School Site Audit project.

This was completed as part of the Neighborhood Audit training session, which was held on April 10 at the Aspen High School Library.

Aspen Campus Schools - Workshop Report

Workshop Date:

April 24, 2007

Attendees:

Austin Weiss, Aspen Trails Manager
Lynn Rumbaugh, Transportation Manager, City of Aspen
Rebecca Driscoll, parent
Chris Moore, parent
Trisha Coyle, Senior Project Manager, City of Aspen
Dave Tolen
Kate Schwartzler, OTAK
Cathy Tuttle, NCTF
Kris Leahy, NCTF
Larry Heinrichs, NCTF

Workshop Notes:

Kate Schwartzler, OTAK Consultant, facilitated a review of maps of the surrounding area, and issues and problems related to safety were discussed and identified.

Please view Appendix A for a prioritized list of projects.

It was determined during the workshop that an additional physical review would be needed, focused on issues surrounding the parent dropoff area at the Cottage, and pedestrian issues in the vicinity of Moore Drive and Maroon Creek. The additional site survey was conducted on May 1, 2007, and projects that resulted from that review are also included in Appendix A.

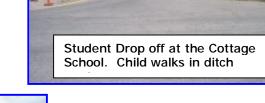


Creek Road & Moore Drive

Sidewalk Missing. Maroon Creek Road & Moore Drive Moore Drive from Maroon Creek Road. Students Walk On the Road.



School. Child competes with **High School Drivers**



Unmarked crossing to parking lot along Maroon Creek Drive. Lots of student foot traffic..

Basalt Campus Schools - School Site Audit Report

Date: April 12, 2007

Audit Team:

Karen Roof, KRoof EnviroHealth Consulting Suzanne Wheeler, Basalt Elementary School Principal Keith Ikeda, Basalt Police Chief Larry Heinrichs, NCTF

Basalt Elementary and Basalt Middle school are located on a campus that is adjacent to Two Rivers Road on the West and Cottonwood Drive on the North. During pick up and drop off times, Cottonwood Drive becomes extremely busy and becomes dangerous to cross. Basalt Elementary also has a parking lot immediately to the front of the school that has limited in and out access. This has forced school officials to create a left turn restriction from the parking lot to Cottonwood Drive, and has become a major irritant for drop-off traffic, since following Cottonwood Drive as marked will route traffic through the downtown area.

Basalt Middle School students are finding it easier to access Cottonwood Drive by walking thru the bus loading zone area. This combination of middle school students and busses will require a redesign of the student pathway and/or the bus drop off zone. The parent drop off lane requires additional marking – parents were observed driving through the parking lot and/or approaching the drop off lane from a reverse direction. Please view Appendix B for the resultant project inventory.

Basalt Campus Schools – Workshop Report

Workshop Date:

April 19, 2007

Attendees:

Leroy Duroux, Basalt Mayor Larry Thompson, Basalt City Engineer Keith Ikeda, Basalt Chief of Police Susan Philip, Basalt Planning Director Suzanne Wheeler, Principal, Basalt Elementary School

Kris Sinko, parent Peggy Beln, parent Gayle Quarento, parent

Workshop Notes:

Kate Schwartzler, OTAK Consultant, facilitated a review of maps of the surrounding area, and issues and problems related to safety were discussed and identified.

Please view Appendix B for a prioritized list of projects.

Carbondale Elementary and Middle Schools – School Site Audit Report

Date: April 9 & 10, 2007

Audit Team:

Karen Roof, KRoof EnviroHealth Consulting Gene Schilling, Carbondale Police Chief Cathy Tuttle, NCTF Larry Heinrichs, NCTF

Components of the team audited Carbondale Community School, Carbondale Crystal River Elementary School, and Carbondale Middle School (currently Roaring Fork High School) during busy times. Major findings are as follows:

Carbondale Community School is a distance from the center of Carbondale, and bicycle and pedestrian routes are limited due to long distances and unsafe conditions for students when crossing State Highway 133. Several potential improvements were noted for students living nearby and for improved school grounds safety. View Appendix C for details.

Carbondale Crystal River Elementary school is a new school, with many safety features built as part of the school. Additional noted items were the need for a connection to a bike trail behind the school, and the need for a sidewalk along Snowmass Drive in front of the school. Crossing guards are also suggested for pedestrians crossing the driveway in front of the drop off driveway. View Appendix C for additional details.

Carbondale Middle School (now Roaring Fork High School) has a student parking lot that will require reconstruction for parent and bus drop off zones. The current parking lot is not supportive of bicycle and pedestrian traffic. Town and School officials indicated that required changes would be completed before the fall school term. At this time, students walking from the area of Carbondale Crystal Elementary are required to skirt the parking lot by an unpaved and muddy area. Bicycle racks will need to be moved from the Middle School. Planned improvements include additional Stop Signs and improved marking. View Appendix C for additional details.

Carbondale Elementary and Middle Schools – Workshop Report

Workshop Date:

April 16, 2007

Attendees:

Ellie Kennedy, Carbondale Public Works
Kate Schwartzler, OTAK
Cathy Tuttle, NCTF
Larry Heinrichs, NCTF
Terri Ritchie
Lori Spence
Colin Laird
Steve Zelaznik
Laura Kirk
Adam Carballeira
Mike Doksrty
John Hoffman
Kathryn Camp

Kate Schwartzler, OTAK Consultant, facilitated a review of maps of the surrounding area, and issues and problems related to safety were discussed and identified.

Ellie Kennedy, Carbondale Public Works, gave the group valuable insight into current and planned projects.

Please view Appendix C for a prioritized list of projects.

Glenwood Springs Elementary and Middle Schools – School Site Audit Report

Date: April 11-12, 2007

Audit Team:

Karen Roof, KRoof EnviroHealth Consulting Mike McDill, Glenwood Springs City Engineer Cathy Tuttle, NCTF Kristine Leahy, NCTF Larry Heinrichs, NCTF

Components of the team audited Sopris Elementary School, Glenwood Elementary School and Glenwood Middle School during busy times. Major findings are as follows:

Sopris Elementary School

In the Student Drop Off Area, there is not a raised curb separating vehicles from pedestrians, children are crossing the drop off lanes.

In the Bus Loading Zones there is two-way traffic in the bus loading zone.

On adjacent sidewalks, bicycle routes are not designated by signage, and there were no marked bicycle lanes present.

Adjacent intersection sidewalks on Mt. Sopris Drive in front of school are not raised with curbs, curb ramps are not in all adjacent intersections, there is missing traffic control, such as stoplight and stop signs, and pedestrian walk signals are not in use.

General observations included illegal U-turns at many places during busy times, Busses blocking drop off parent driver views, and the nearby Midland Ave Traffic Corridor is not pedestrian-friendly.

Parents were observed parking in front of No Parking signs during drop off and pick up times.

Glenwood Springs Elementary School

School Avenue one-way signage is confusing, drivers misread the signs and make turns onto the street. Crosswalks are not adequately marked at 9th and School Avenue and on Pitkin street.

Pitkin avenue traffic is speeding in the school zone area. Adult crossing guards may be needed in the area, and improved crosswalk marking with stand-up street signs are suggested.

The back area has an entrance for bicycles from the bike trail, but it is rather muddy and hard to use.

Additional projects and comments are documented in Appendix D.

Glenwood Springs Middle School

During bad weather, the drop off area can become congested and traffic backs up onto Soccer Field Road. Maybe a crossing guard program is needed.

Cars going the wrong way in a one-way bus drop-off zone. Enforcement is needed.

Students crossing Highway 6 to get to the bus stop need a highlighted crosswalk. It is not well marked, and traffic is dangerous in this area.

Additional projects and comments are documented in Appendix D.

Glenwood Springs Elementary and Middle Schools - Workshop Report

Workshop Date:

April 18, 2007

Attendees:

Kate Schwartzler, OTAK Mike McDill, Glenwood Springs Engineer

Terry Wilson, Glenwood Springs Police Chief Bruce Christensen, Glenwood Springs Mayor Cathy Tuttle, NCTF Kristine Leahy, NCTF Larry Heinrichs, NCTF Karen Dixon Katie Gambardella Lynne Cassidy Jennifer Holmgren Marty Mazzotta Terri Montoya Julie Stepniewski Konnie Krahn-Prosence Todd Leahy Susan Blizzard Tom McRaith Jeanne Golay Tim Burns

Kate Schwartzler, OTAK Consultant, facilitated a review of maps of the surrounding area, and issues and problems related to safety were discussed and identified.

Mike McDill, Glenwood Springs City Engineer, gave the group a review of current and planned projects.

Please view Appendix D for a prioritized list of projects.

Project Inventory Appendixes - Description

The attached inventories represent a summary of findings from the school audits, neighborhood audits and design workshops. They are arranged by city or town name.

At the end of each workshop, we asked the participants which projects they deemed to be the most critical for creating safe routes for their children. We then created a separate category of high priority items, asked each city engineer what projects are in progress, then applied industry standard estimates to the rest of the priority projects. We want to stress that these estimates are general estimates to be used for planning.

The remaining projects are categorized by type, and listed, along with the status of each project, (status as defined by each city engineer) as part of each city or town's inventory list.

Acknowledgements

The Safe Routes Team wishes to thank all parents and school staff and city employees who took the time to attend the meetings and fill out the forms. Your participation has (and will) make the difference.

We already have seen improved street markings and projects initiated that remediate some of the most critical needs outlined by you.

Thank you.

Cathy Tuttle, Project Manager Larry Heinrichs, Project Consultant Kristine Leahy, Parent Coordinator

Appendix A – Aspen Project Inventory

Aspen Safe Routes Project Inventory

School	Project	Comments	Status (Aspen Engineer Comments)	Approximate Cost
¢ TOP PRIORIT	TIES			
Aspen School Campus (ASC)	Cottage parking area	Students have to walk on the road. No bike / pedestrian lanes are designated		Consultant familiar with parking lot circulation issues needs to examine parking lot and determine traffic circulation. Paggible padagtrian barriags such
				 Possible pedestrian barriers such as bollards could be installed. \$200 - \$500 each
ASC	Moore Drive intersection	Dangerous with traffic / pedestrian/student mix.		Improvements may include: • Two new crosswalk markings ○ \$2,000 (Thermoplastic) ○ \$200 (Paint) • Additional warning signs ○ \$150 each
ASC	Castle Creek Bridge	Only reasonable way to cross from Aspen proper to the campus; narrow, traffic.		Consultant familiar with pedestrian bridge crossings needs to be hired to analyze feasibility scenarios and to estimate cost.
ASC	ARC bus stop	Congestion during busy times; pedestrians must walk in the ditch along side of road.	Planning Stages	City to determine costs

School	Project	Comments	Status (Aspen Engineer Comments)	Approximate Cost
	Moore Drive and between Maroon Creek and High School Road	No sidewalk; need safe place for students/pedestrians to walk, including people trying to get to bus stop.		New sidewalk needed • A concrete sidewalk is approx. \$4.00 per square feet to install. Prior to installation the site needs to be analyzed for proper placement of pathway and accurate estimate of costs.
	ARC bus stop / Maroon Creek Bridge	No crosswalk from bus stop by ARC (west side) across street to Maroon Bridge. People need a way to safely cross.	Planning Stages	City to determine costs
	Crosswalk by hospital	Difficult intersection because it's a blind area; possibly add speed table, lighted sidewalk		Improvements may include: • Speed Table • \$2,000 • Additional Lighting • Bollard Lighting - \$400 to \$800 each • Light Standards - \$2,000 each
¢ CROSSING	-			
	Underpass	Is there room for an underpass on town side of river?		
	Pyramid / Hwy 82 crossing	Crossing issue will probably be cleaned up.		
	ARC / Maroon Creek crossing	Crossing Maroon Creek from pathway behind ARC (where underclassmen park) is unsafe. CDOT may be reviewing.	Planning Stages	City to determine costs

0 1 1		School and Neighborhood II		
School	Project	Comments	Status (Aspen	Approximate Cost
			Engineer Comments)	
	Tiehack / Hwy 82	Dangerous intersection with no place to walk		
	ADA-compliant ramps	City is working on these	Scheduled or Planning	
¢ SIGNAGI	E / STRIPING			
	High school parking lot	Signage and possibly circulation need to be improved. Needs to be one way.		
	Tiehack / Stage Road	Needs pedestrian crosswalk striping.		
	AABC trail terminus	Signage, improved markings, etc. may be needed		
	Maroon Creek / Glen Dee Rd	Needs striping		
	Bike path markings	Striping on outer edge would improve visibility, especially at dusk.		
¢ SIDEWAL	K, TRAIL, AND BIKE LA	ANE CONNECTIONS AND IMPROVE	MENTS	
ASC	Fivetrees Metro Dist., School bike/ped sidewalk and trail coordination	Jim Caparelli is working with Fivetrees to determine their requirements; include him in further discussions/definitions.		
ASC	Power Plant Road trail	Trail is too steep for student use.		
	Zone 6 (rural) sidewalks	No sidewalks will be installed, per City regs.		

School	Project	Comments	Status (Aspen Engineer Comments)	Approximate Cost
ASC	Highlands to School trail	Trail connection needed	,	
ASC	Burlingame to North Forty trail	Trail connections needed		
	Burlingame to campus	Connection needed		
	Burlingame to Deer Hill	Connection needed		
ASC	Connecting trail around AABC	Connect the North Forty to the city trail system		
	Castle Creek bridge	Weak link for kids walking/biking from town; issues with bridge.		
	Pedestrian bridges	No winter maintenance. May be able to keep Nordic use side-by-side. People take shortcuts instead of going up and over.	Planning Stages	
	Maroon Creek / Boomerang	Trail ends; no sidewalk or trail beyond.		
	Northstar into City	Needs trail connection along SH 82		
	Clark's Market	Needs trail behind		
	West Hopkins to East Hopkins	Needs bike lane		
¢ CONGESTI	ON, TRAFFIC, AND	PARKING ISSUES		
	Cottage parking	No safe student drop-off.		
¢ EDUCATIO	N / AWARENESS			

School	Project	Comments	Status (Aspen Engineer Comments)	Approximate Cost
All	Effective City / County / School Bike and Pedestrian Coordination	Jurisdictional lines sometimes interfere with effective solutions to pedestrian / traffic issues		

Assumptions

- Approximate costs were provided for Top Priorities Only.
- Approximate costs are for planning purposes only.

Appendix B – Basalt Project Inventory

Basalt Safe Routes Project Inventory

School	Project	Comments	Status (Basalt Engineer Comments)	Approximate Cost
¢ TOP PRIORITI	ES			
Basalt Elementary School (BES)	Cottonwood— Elementary entrance crosswalks	Crosswalk placement reflects the old elementary school. Remove old and place new crosswalks in proper places. May be improved as part of repaving project.	Planned and budgeted, Summer '07	To be determined by Town of Basalt
BES	Cottonwood— Parking	Add "No Parking" signs on Cottonwood. Some parents avoid the elementary parking lot by parking along Cottonwood, which causes congestion and contributes to a dangerous crossing situation. May be improved as part of repaving project.		Additional "No Parking" signs need to be installed. May be provided as part of repaving project. Installing signs \$\(\)\$ \$150 each
BES	Cottonwood— Stop Signs	Evaluate the intersection by the bus lane. Place 2 stop signs on Cottonwood to control traffic flow at the intersection.	Planned and budgeted, Summer '07	To be determined by Town of Basalt
BES	Elementary parking lot	School District needs to look at redesigning this areas to	By RFSD	The School District should hire a consultant experienced with designing

			Thood Improvements Report	
School	Project	Comments	Status (Basalt Engineer Comments)	Approximate Cost
	entrance and exit congestion	adequately address safety concerns		efficient circulation patterns. The consultant could alsoprovide a cost estimate for the necessary improvements.
Basalt Middle School (BMS)	Signage and striping at student dropoff	The middle school needs additional signs and striping to direct drop-off traffic. Currently, parents are driving thru the parking area both ways, instead of using the drop-off lane	By RFSD	 Signs \$150 each Striping \$200 - \$1,000 depending on extent of striping needed
¢ CROSSING				
BES/BMS	Hwy 82 and Basalt Ave.	Needs safe crossing, possibly an overpass.	Conceptual planning underway; CDOT enhancement grant applied for; not budgeted; no schedule for construction	
BES/BMS	Underpass on Midland Avenue at Hwy 82	Needs safe crossing. There is a design being considered for an underpass to allow for crossing of Hwy 82	Conceptual planning underway; CDOT enhancement grant applied for; not budgeted; no schedule for construction	
BES/BMS	From school grounds across Cottonwood to park trail	Needs safe crossing	Crosswalk planned and budgeted for summer '07	
BES	Two Rivers Road	Needs improved crosswalk placement		
¢ SIGNAGE/ST	TRIPING			
BMS	Middle School drop-off area	Need better signage and marking for Middle School		

School	Project	Comments drop-off area	Status (Basalt Engineer Comments)	Approximate Cost
BES	Parent parking on Two Rivers Road	Would like additional diagonal striping to allow for additional stopping along Two Rivers Road.		
BES	Left-turn elementary exit	Parents ignore the "no left turn" sign, which requires extra driving through downtown. Evaluate use of the sign and re-design the exit from the parking lot to allow left turns.		
c SIDEWALK, T	RAIL, AND BIKE I	ANE CONNECTIONS AND	IMPROVEMENTS	
BES/BMS	Cottonwood – above River Cove and Village Ct.	Narrow street and sidewalk		
BMS	Bus lane / student walkway improvements	Middle school students are cutting thru the bus lanes instead of using the designated walkway.		
BES	Blue Lake to school	Needs improved bike and pedestrian route.		
BES	JW Drive	Sidewalk is unsafe.		
	Between Emma Trail and Willits Trail	Connection needs to be provided.	Construction of bridge to connect trails is underway; completion expected Fall '07	

School	Project	Comments	Status (Basalt Engineer Comments)	Approximate Cost
¢ CONGESTIC	ON/ PARKING			
BES/BMS	Parking Lot	Review layout, circulation of parking lot		
¢ EDUCATION	I/ AWARENESS			
BES/BMS	Parent Education	Send flyers home to parents regarding staged pickup times, waiting somewhere in vicinity of the Middle school, crossing guards, sending petition to school		
BES	Parent Safety Awareness	Parents doing pickup are passing other cars in the wrong lane, parking on sidewalks, ignoring turn signs.		
BES	Start a crossing guard program	Possibly parents and/or 5 th graders		

Assumptions

- Approximate costs were provided for Top Priorities Only.
- Approximate costs are for planning purposes only.

Appendix C – Carbondale Project Inventory

Carbondale Safe Routes Project Inventory

School	Project	Comments	Status (C'dale Public Works Comments)	Approximate Costs			
¢ TOP PRIOR	TOP PRIORITIES						
All	133 and Main	Needs pedestrian-activated signal light		New pedestrian activated signals can cost \$70,000. The existing signal could be analyzed by CDOT for better timing and more cost effective improvements.			
CCS	Improved pedestrian facilities at Village Road and 133	Needs improvements to accommodate pedestrians. A RFTA Park-and-Ride is being built here and may include some improvements (will have a traffic signal).	Signal is scheduled to be installed this year	To be determined by RFTA/Town of Carbondale/CDOT			
CRES / CMS	Snowmass and 133	Pedestrian crossing facilities, speed control		Improvements may include: • Better signage • \$150 each • Striping for crosswalk • \$2,000 (Thermoplastic) • \$200 (Paint)			
CRES / CMS	Sopris and 133	Pedestrian crossing facilities such as a pedestrian-activated light, improved lighting, speed control		Improvements may include: • Pedestrian activated light • \$70,000 • Better signage			

School	Project	Comments	Status (C'dale Public Works Comments)	Approximate Costs
				 \$150 each Improved Lighting Bollard Lighting - \$400 to \$800 each Light Standards - \$2,000 each
CRES / CMS	Improved speed enforcement	Includes several locations		To be determined by Town
CRES / CMS	Restart a Crossing Guard Program	Possibly seasonal		Possible expenses include portable signs and safety vests and could be in the range of \$500.
¢ CROSSING				
	Main and Snowmass	Pedestrian-activated light		
	133 at RVR crossing	Provide pedestrian refuge		
¢ SIGNAGE/S	TRIPING			
	South of Meadowwood drive	Would like it to be a designated school zone	Working with CDOT	
¢ SIDEWALK, 1	RAIL, AND BIKE	LANE CONNECTIONS AND IMPR	ROVEMENTS	
All	133 (west Side) in the area of the new park and ride	Install new sidewalk; would like to have along length of 133 on west side.		
CRES / CMS	Crystal River Drive.	Sidewalk needed		

School	Project	Comments	Status (C'dale Public Works Comments)	Approximate Costs
CRES / CMS	Miner's park (by Hendrick Ranch)	Add a bike path / trail		
CRES /CMS	Weant at Sopris Park	Sidewalk needed		
ALL	Garfield Avenue	Provide a connection across Sopris Park for a continuous trail (including curb cuts)		
CRES	New elementary school	Need connection from existing RFTA trail to campus		
CRES / CMS	New school (between schools)	Need sidewalk in front		
CMS	Middle school parking lot	Need sidewalk on east side		
ALL	Miner's Park from Garfield St	Need trail connection		
ALL	Hendrick Rd adjacent to Miner's Park	Need path or sidewalk on both sides of road		
ALL	Hendrick Rd and Greystone	Need trail crossing connection		
ALL	Community garden	Need sidewalk connection in front		
	Main Street/133	Need to extend trail		
CRMS	CRMS	Needs trail connection to the school		
ALL	Rio Grande	Need connection from		

School	Project	Comments	Status (C'dale Public Works Comments)	Approximate Costs
	Trail around Painted Lady Lane	neighborhood to trail	Works Comments)	
ALL	Sopris Park	Need connection through park, including curb cut at both ends		
ALL	Weant from Glessier Dr	Sidewalk needed		
ALL	Crystal Bridge Dr to 133	Sidewalk connection needed		
ALL	New bridge at 133 / 82	Encourage pedestrians to use upvalley side; possible undercrossing. CDOT is working on plans for bridge improvements	Construction to begin fall of this year	
ALL	General maintenance	Maintenance of trails/paths/shoulders (gravel covering paths etc.)		
¢ CONGESTION	ON/PARKING			
CRES / CMS	Catherine Store Rd and Snowmass Dr	Needs improved traffic control		
CRES / CMS	Snowmass Dr	Add speed bumps	Traffic calming paint	
CRES / CMS	Speeding on Village Rd	Speed bumps recommended		
CRES / CMS	Village Smithy Area	Traffic calming needed		
CRES / CMS	133 and Weant	Traffic calming, speeed bumps needed		

School	Project	Comments	Status (C'dale Public Works Comments)	Approximate Costs
ALL	Traffic Control/Police	Safety flags at crossings; resurrect crossing guard program (seasonal use)		
CRES / CMS	3 rd St behind Village Smithy	Add stop signs to calm traffic		
	Village Rd at Buggy Circle	Need signage, speed bumps, traffic control		
	133 and Valley Ranch Dr	Need full light		
¢ EDUCATION	/AWARENESS			
ALL	Reduce speeding	Visual cues to slow down		

Assumptions

- Approximate costs were provided for Top Priorities Only.
- Approximate costs are for planning purposes only.

Appendix D – Glenwood Springs Project Inventory

Glenwood Springs Safe Routes Project Inventory

School	Project	Comments	Status (GWS Engineer Comments)	Approx. Cost
¢ TOP PRIORI	TIES			
	Midland Avenue Signage/painting	Corridor needs safety improvements, including bike lanes in both directions, better signage and crossing	City is currently selecting a consultant to develop a plan for this whole corridor with and emphasis on traffic calming.	Cost to be determined by City.
GSES / GMS	8 th Street crossing near Farnum-Holt Mortuary	Speeding traffic, crosswalk sign faded, requires more aggressive center-street signage.	We have a center street sign on order for this location.	Improvements could also include: • Repainting the sidewalk • \$2,000 (Thermoplastic) • \$200 (Paint) • Installing a pedestrian activated signal • \$70,000
GSES	Intersection of 10 th and Pitkin Ave	Crosswalks need to be repainted; needs improved school zone signage; speeding needs to be enforced.	X-walk will be repainted. Looking into lowering beacon.	Improvements could also include: • Adding two school zone signs ○ \$150 each • Adding a speed table ○ \$5,000 • Adding a speed bump ○ \$2,000
SES /GMS	Intersection of	Extremely busy intersection.	Developer at southeast corner is	Prior to the construction of a

School	Project	Comments	Status (GWS Engineer	Approx. Cost
		201111101110	Comments)	ripproxit cost
	27 th Street and Grand Ave	No stop from east to west and no marked crosswalk on the east side of the intersection. Intersection is also where River Trail connects to trails south of town.	designing a new roundabout with sidewalks at this location. Hopefully, it will be built in 2008.	roundabout, short term improvements could include: • Repainting the sidewalk • \$200 (paint) • Adding additional warning signs • \$150 each
GSES	River Trail connection to back of GSES	Currently muddy and difficult to bike or walk; needs small repairs to be very useful; needs connection to front of school.		A continuous pathway needs to be constructed • An asphalt path is approximately \$2.50 per square foot to install. Prior to installation the site needs to be analyzed for proper placement of pathway and accurate estimate of costs.
All	Carpooling to schools	Encourage parents to carpool with flyers, newsletters, web page, central sign-up location, designated parking area.		 Flyer - \$200 Newsletter - \$400 Striping for designated carpool spaces - \$400 Signage for designated carpool spaces - \$150 each
GMS	RFTA bus stop near Soccer Field Road in West Glenwood	Hwy 6&24 is difficult to cross—need additional pedestrian crosswalk facilities		Additional warning signs need to be placed. • \$150 per sign
¢ CROSSING	•			
	Intersection of	Needs improvement		

School	Project	Comments	Status (GWS Engineer	Approx. Cost
3011001	rioject	Comments	Comments)	Арргол. Созг
	6 th and Laurel		geninens)	
GSES	School St	Need bulbout to increase visibility		
GSES	7 th Street behind City Hall	Dangerous crossing between City Hall and parking area	Hope to have a plan for re-aligning 8 th St. by spring of 2008 for construction that year.	
GSES	8 th and Midland stoplight	Pedestrian light does not provide enough time for safe crossing.		
SES	Intersection of Midland and Mt. Sopris Dr	Dangerous intersection for bicyclists and pedestrians.	There is talk of constructing sidewalk around Mtn. Valley, but no budget in 2007 or 2008.	
	Intersection of 13 th and Midland	Speeding traffic; blind curve. Install center island.	We are currently selecting a consultant to develop a plan for this whole corridor with and emphasis on traffic calming.	
Yampa	Midland Ave. at Yampa	Crosswalk is not clearly marked	A new x-walk facility is in design for construction later this fall.	
GMS	Intersection of Hwy 6 and Devereaux Rd	No crosswalk or signals to cross Hwy 6 at Devereaux, which is one of the only ways to get from Two Rivers Park to GMS	Plans are about 75% complete for a roundabout w/ walks at this intersection to be constructed this fall and next summer.	
¢ SIGNAGE / S	STRIPING			
GSES / GMS	Blake Avenue bike lanes	Need to be repainted (completed 6/07)		
¢ SIDEWALK, T	rail, and bike i	ANE CONNECTIONS AND	MPROVEMENTS	

School	Project	Comments	Status (GWS Engineer Comments)	Approx. Cost
GMS	Exit 114 Roundabout Improvements	Roundabouts are difficult for middle school students to navigate. Provide signage, improved marking, additional islands		
GMS	Devereux Road	No sidewalks or bike lanes; this road is the only access to the west toward the middle school.	Budget in 2008 to construct a bike/ped bridge adjacent to traffic bridge to connect planned roundabout with pathway in Two Rivers Park	
GMS	West Glenwood /Colorado River pedestrian bridge	Recommended in Parks and Recreation Master Plan.		
GMS/GSES	Exit 116 connection of the Roaring Fork Trail/Glenwood Canyon/West 6th Ave Trail	Recommended in Parks and Recreation Master Plan.		
GMS	Centennial Street/West 6 th Street connecting trail	Recommended in Parks and Recreation Master Plan.		
SES	Midland Ave bike paths	Currently on one side of street; both sides need paths. No painted bike lane symbol or other sign; path should be colored and/or raised.	Will be constructing a separated pathway from Cardiff Glen to the south edge of the Mtn. Valley property this fall.	

School	Project	Comments	Status (GWS Engineer Comments)	Approx. Cost
GSES/GMS	Connect River Trail to 8 th Street bike lanes	Recommended in Parks and Recreation Master Plan.		
GSES	12 th Street / Grand Avenue pedestrian underpass	Dirty; dimly lit; uncertain footing. All-weather footing would enhance usefulness.		
SES / GES	S. Grand Avenue by Berthod Motors	Sidewalk disappears		
SES	27 th Street Pedestrian Bridge	Recommended in Parks and Recreation Master Plan.		
SES	CR 154 – (Riverside Cottages area)	No sidewalks or bikeways; blind curves; high-speed traffic.		
SES	Mt. Sopris Drive.	No bike paths. Bikes ride on sidewalk or on road shoulder where many cars park.		
SES	Westbank River Trail south of Cardiff Pedestrian Bridge	Recommended in Parks and Recreation Master Plan.		
GSES	7 th Street Railroad Underpass	Narrow sidewalk; speeding traffic.	Could be eliminated with new 8 th Street Re-alignment project	
SES	CR 156 /	Sidewalk missing. Unmarked		

School	Project	Comments	Status (GWS Engineer Comments)	Approx. Cost
	Midland Ave	bike path. 20-40 feet. Too close to traffic.		
GSES	Midland Ave. and Overlin Dr	Sidewalk and curbing disappear		
GMS	Glenwood Meadows / Community Center / Devereux Rd connection	Recommended in Parks and Recreation Master Plan.		
GMS	Missing bike trail / sidewalk from Meadows to GMS	Sidewalk ends at the Community Center and then between Midland and the middle school.	The portion from the Community Center to E. Meadows Drive will be bid for construction this fall.	
SES	Mountain Market and mobile home park	Sidewalk areas not maintained.		
GMS	Hwy 6&24 sidewalk	Sidewalk is at grade and covered with gravel; needs maintenance.		
¢ CONGESTIO	N, TRAFFIC, AND	PARKING ISSUES		
GSES	Bennett Avenue	Speeding traffic		
SES / GSES	CR 154 in front of Sportland	Roadway is partially covered with various sporting equipment.		
SES / GSES	S. Grand Ave by Berthod Motors	Trucks park on roadway, traffic has to navigate, unsafe		

School	Project	Comments	Status (GWS Engineer Comments)	Approx. Cost
		for bikes and pedestrians	Comments)	
SES	Mountain Market area	Needs a speed bump like those on Park Ave by the High School.		
GES	Intersection of 10 th Street and Midland Ave	Traffic does not stop; large congregation of students with no shelter or place to stand; inadequate signage for school children.	We are currently selecting a consultant to develop a plan for this whole corridor with and emphasis on traffic calming.	
SES	CR 154— Mobile Home Park / Berthod Motors	Cars exit mobile home park at high speeds.		
SES / GES	CR154 / 33 rd St. Trail intersects & crosses CR154 / Grand Avenue.	Need crosswalk / "bikes on road" warning signs. A proposed daycare school on east side of Grand will increase traffic in the area.	Looking at improving signage and repainting crossing.	
SES	Park West / CR 117	Blind bicycle/auto intersection. Can big mirrors be installed for visibility? Curb cuts and sidewalks need to be standardized.		
¢ EDUCATIO	N / AWARENESS	,		
GES / GMS /SES	Parent Carpool Exchange	Provide a facility for parents to locate others interested in carpooling on roads where walking, biking, and /or		

School	Project	Comments	Status (GWS Engineer Comments)	Approx. Cost
		busing are not feasible		
GSES	Crossing guards at intersections on Pitkin & Grand Ave	Additional assistance for students walking to GSES		

Assumptions

- Approximate costs were provided for Top Priorities Only.
- Approximate costs are for planning purposes only.